

# Service & Private Endpoints (Storage Account)

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for 'CLOUD-RECORDINGS - Google', 'udaystorageaccount216 - Microsoft Azure', and 'Uvm01 - Microsoft Azure'. The main content area displays the 'Overview' page for the storage account 'udaystorageaccount216'. The left sidebar contains navigation links such as 'Home', 'Storage account', 'Overview', 'Activity log', 'Tags', 'Diagnose and solve problems', 'Access Control (IAM)', 'Data migration', 'Events', 'Storage browser', 'Storage Mover', 'Partner solutions', 'Resource visualizer', 'Data storage' (with sub-options 'Containers', 'File shares', 'Queues', 'Tables'), 'Security + networking', and 'Add or remove favorites by pressing Ctrl+Shift+F'. The right panel is divided into sections: 'Essentials' (Resource group: Urg01, Location: centralus, Subscription: Azure subscription 1, Subscription ID: 5d75b66d-66bf-44e0-8d7e-7e61e4b043d7, Disk state: Available, Tags: Add tags), 'Properties' (Monitoring, Capabilities (7), Recommendations (0), Tutorials, Tools + SDKs), 'Blob service' (Hierarchical namespace: Disabled, Default access tier: Hot, Blob anonymous access: Enabled, Blob soft delete: Disabled, Container soft delete: Disabled, Versioning: Disabled, Change feed: Disabled, NFS v3: Disabled, Allow cross-tenant replication: Disabled), 'Security' (Require secure transfer for REST API operations: Enabled, Storage account key access: Enabled, Minimum TLS version: Version 1.2, Infrastructure encryption: Disabled), and 'Networking' (Public network access: Enabled, Public network access scope: Enable from selected virtual networks and IP addresses). The bottom of the screen shows the Windows taskbar with various pinned icons.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for 'CLOUD-RECORDINGS - Google', 'udaystorageaccount216 - Microsoft Azure', and 'Uvm01 - Microsoft Azure'. The main content area displays the 'Overview' page for the virtual machine 'Uvm01'. The left sidebar contains navigation links such as 'Home', 'CreateVm-MicrosoftWindowsServer.WindowsServer-202-20260209164636 | Overview', 'Uvm01' (Virtual machine), 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Monitor', 'Resource visualizer', 'Connect', 'Networking' (with sub-options 'Network settings', 'Load balancing', 'Application security groups', 'Network manager'), 'Settings' (with sub-options 'Disks', 'Extensions + applications'), and 'Add or remove favorites by pressing Ctrl+Shift+F'. The right panel is divided into sections: 'Essentials' (Resource group: Urg01, Status: Running, Location: Central US, Subscription: Azure subscription 1, Subscription ID: 5d75b66d-66bf-44e0-8d7e-7e61e4b043d7, Tags: Add tags), 'Properties' (Monitoring, Capabilities (8), Recommendations, Tutorials), 'Virtual machine' (Computer name: Uvm01, Operating system: Windows (Windows Server 2025 Datacenter), VM generation: V2, VM architecture: x64), and 'Networking' (Public IP address: 130.131.219.65 (Network interface uvm01935), 1 associated public IPs, Public IP address (IPv6): -, Private IP address: 172.17.0.4). The bottom of the screen shows the Windows taskbar with various pinned icons.

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Copilot ... DEFAULT DIRECTORY (REDDYLP...)

Home ucon1 Container

Search Add Directory Upload Change access level Refresh Delete Copy Paste Rename Acquire lease Break lease Edit columns

Overview ucon1 Authentication method: Access key (Switch to Microsoft Entra user account)

Diagnose and solve problems Access Control (IAM) Settings

Search blobs by prefix (case-sensitive) Only show active blobs

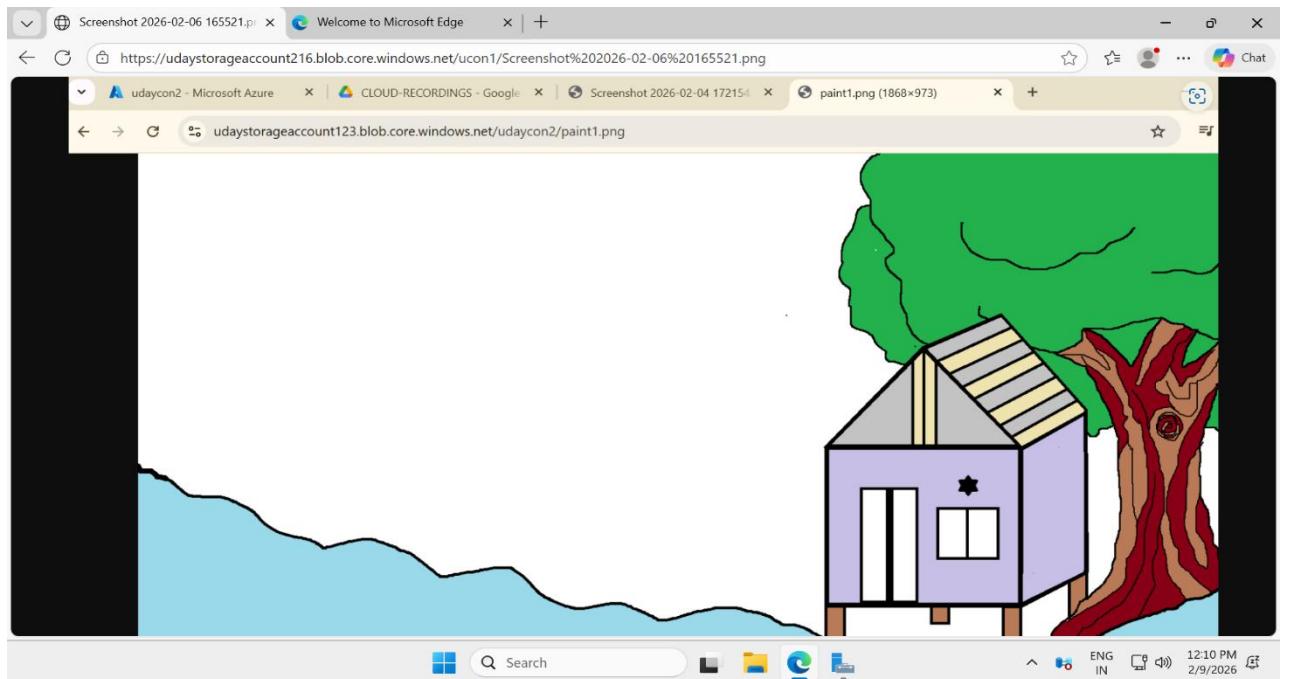
Showing all 1 items

Name	Last modified	Access tier	Blob type	Size	Lease state
Screenshot 2026-02-06 165521.png	09/02/2026, 16:52:31	Hot (Inferred)	Block blob	144.18 KB	Available

Copy url and Browse on my laptop and internal Vm01 we get below result



Uvm01



## Public network access

⚠ Enabling public network access will make this resource available publicly. Unless public access is required, consider using the most restricted access control.

Public network access scope \* ⓘ

Enable from all networks

Enable from selected networks

⚠ If you choose default action as 'Enable from selected networks', please add at least one IP firewall rule or a Virtual Network.

### Virtual Networks

Allow select virtual networks to connect to your resource using service endpoints. [Learn more](#)

+ Add a virtual network ▾

Add existing virtual network

Add new virtual network

Subnet

Address Range

### IPv4 Addresses

Allow select public internet IP addresses to access your resource. [Learn more](#)

+ Add your client IPv4 address ("49.206.40.158")

IPv4 address or CIDR

Resource instances

Save Cancel

Microsoft Azure [Upgrade](#) Search resources, services, and docs (G+)

reddylkp2004@gmail.com DEFAULT DIRECTORY (REDDYLPK...)

## Add networks

Subscription \* Azure subscription 1

Virtual networks \* vnet-centralus

Subnets \* snet-centralus-1 (Service endpoint required)

The following networks don't have service endpoints enabled for 'Microsoft.Storage'. Enabling access will take up to 15 minutes to complete. After starting this operation, it is safe to leave and return later if you do not wish to wait.

Virtual network	Service endpoint status
vnet-centralus	Not enabled

IPv4 Addresses

Allow select public internet IP addresses to access your resource. [Learn more](#)

+ Add your client IPv4 address ("49.206.40.158")

IPv4 address or CIDR

Resource instances

Save Cancel

Enable

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > udaystorageaccount216 | Networking

## Public network access

Allow select virtual networks to connect to your resource using service endpoints. [Learn more](#)

+ Add a virtual network

Virtual Network	Subnet	Address Range	Endpoint Status	Resource Group	Subscription
> vnet-centralus	1	172.17.0.0/16	urg01		Azure subscription 1

### IPv4 Addresses

Allow select public internet IP addresses to access your resource. [Learn more](#)

+ Add your client IPv4 address ("49.206.40.158")

### Resource instances

Specify resource instances that will have access to your storage account based on their system-assigned managed identity. [Learn more](#)

Resource type	Instance name
Select a resource type	Select one or more instances

**Save** **Cancel**

CLOUD-RECORDINGS - Google | Public network access - Microsoft | Uvm01 - Microsoft Azure | udaystorageaccount216.blob.core.windows.net/ucon1/Screenshot%202026-02-06%20165521.png

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<Error>
  <Code>AuthorizationFailure</Code>
  <Message>This request is not authorized to perform this operation. RequestId:7240b528-f01e-0008-2dba-99fc6b000000 Time:2026-02-09T11:50:00.9755856Z</Message>
</Error>
```

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > udaystorageaccount216 | Containers

## ucon1

Container

Search

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

**This request is not authorized to perform this operation.**

**Summary**

Session ID a104cae9cdc46f7b63302455334dad9	Resource ID /subscriptions/5d75b66d-66bf-44e0-8d7e-7e61e4b043...
Extension Microsoft_Azure_Storage	Content BlobsView.ReactView
Error code 403	Storage Request ID c115624e-301e-004a-4bc1-9945eb000000

**Details**

- This request is not authorized to perform this operation. RequestId:c115624e-301e-004a-4bc1-9945eb000000 Time:2026-02-09T12:41:36.6682673Z
- This storage account's 'Firewalls and virtual networks' settings may be blocking access to storage services. Try adding your client IP address ('49.206.40.158') to the firewall exceptions, or by allowing access from 'all networks' instead of 'selected networks'. [Learn more](#)

**What's My IP Address .com**

Enter Keywords or IP Address...

MY IP    IP LOOKUP    HIDE MY IP    VPNS ▾

My IP Address is:

IPv6: ? **2001:4860:7:806::f0**

IPv4: ? **49.206.40.158**

My IP Information: Are you using a VPN?

ISP: Google LLC

## Public network access

Allow select virtual networks to connect to your resource using service endpoints. [Learn more ↗](#)

+ Add a virtual network ▾

Virtual Network	Subnet	Address Range	Endpoint Status	Resource Group	Subscription
> vnet-centralus	1	172.17.0.0/16		urg01	Azure subscription 1

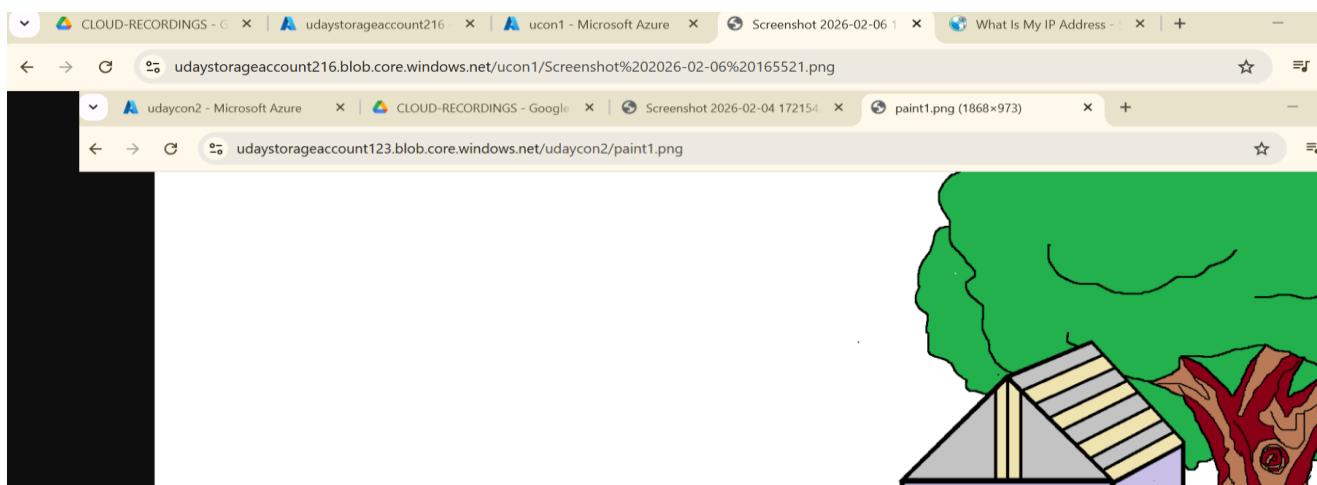
### IPv4 Addresses

Allow select public internet IP addresses to access your resource. [Learn more ↗](#)

49.206.40.158	<input type="button" value="Delete"/>
IPv4 address or CIDR	

### Resource instances

Specify resource instances that will have access to your storage account based on their system-assigned managed identity. [Learn more ↗](#)



Microsoft Azure Upgrade Search resources, services, and docs (G+)

reddylkp2004@gmail.com DEFAULT DIRECTORY (REDDYLN)

Home > udaystorageaccount216 | Containers

**ucon1** Container

Search Add Directory Upload Change access level Refresh Delete Copy Paste Rename Acquire lease Break lease Edit column

**Overview** ucon1

Diagnose and solve problems Add filter Authentication method: Access key ([Switch to Microsoft Entra user account](#))

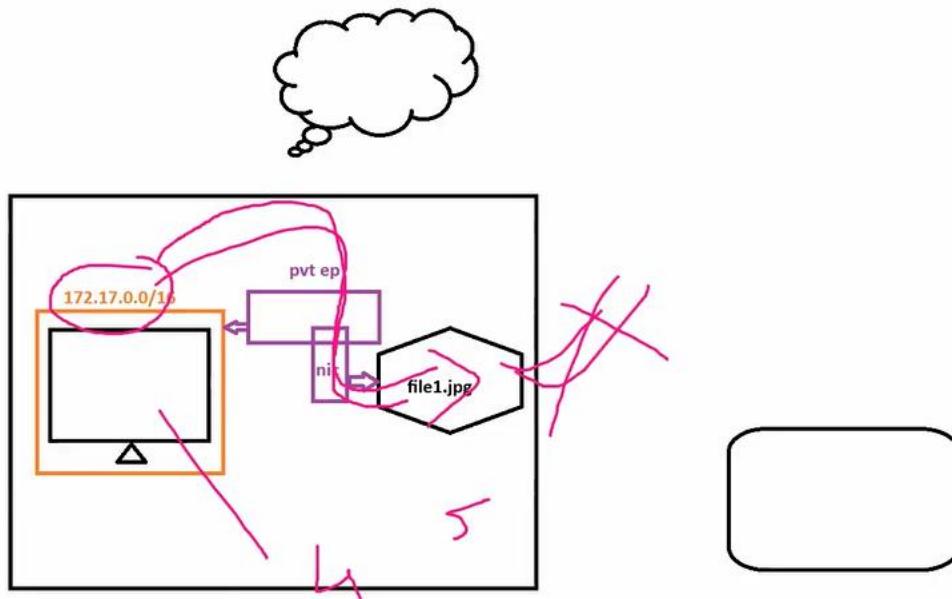
Access Control (IAM) Search blobs by prefix (case-sensitive) Only show active blobs

Settings

Name	Last modified	Access tier	Blob type	Size	Lease state
Screenshot 2026-02-06 165521.png	09/02/2026, 16:52:31	Hot (Inferred)	Block blob	144.18 KiB	Available

## ✓ Private endpoint

Service endpoint  
Private Endpoint



Home > Network foundation | Private endpoints

## Create a private endpoint

**⚠ Changes you make on this tab may affect any configuration you've done on other tabs. Review all options prior to creating the private endpoint.**

**Basics** Resource Virtual Network DNS Tags Review + create

Use private endpoints to privately connect to a service or resource. Your private endpoint must be in the same region as your virtual network, but can be in a different region from the private link resource that you are connecting to. [Learn more](#)

### Project details

Subscription \* ①

Azure subscription 1 ▼

Resource group \* ①

Urg01 ▼

[Create new](#)

### Instance details

Name \* ②

UstorageEP ✓

Network Interface Name \* ③

UstorageEP-nic ✓

Region \* ④

Central US ▼

< Previous

Next : Resource >

## Create a private endpoint

✓ Basics    2 Resource    3 Virtual Network    4 DNS    5 Tags    6 Review + create

Private Link offers options to create private endpoints for different Azure resources, like your private link service, a SQL server, or an Azure storage account. Select which resource you would like to connect to using this private endpoint. [Learn more](#)

Connection method  Connect to an Azure resource in my directory.  
 Connect to an Azure resource by resource ID or alias.

Subscription \*

Resource type \*

Resource \*

Target sub-resource \*

[< Previous](#) [Next : Virtual Network >](#)

Home > Network foundation | Private endpoints

## Create a private endpoint

✓ Basics    ✓ Resource    3 Virtual Network    4 DNS    5 Tags    6 Review + create

### Networking

To deploy the private endpoint, select a virtual network subnet. [Learn more](#)

Virtual network

Subnet \*

Network policy for private endpoints

### Private IP configuration

- Dynamically allocate IP address  
 Statically allocate IP address

### Application security group

Configure network security as a natural extension of an application's structure. ASG allows you to group virtual machines and define network security policies based on those groups. You can specify an application security group as the source or destination in an NSG security rule [Learn more](#)

[< Previous](#) [Next : DNS >](#)

### ✓ Above private ip configuration

- Dynamically allocate ip address will create DNS at backend default and it will map name to private ip

## Create a private endpoint

Basics  Resource  Virtual Network  4 DNS  5 Tags  6 Review + create

### Private DNS integration

To connect privately with your private endpoint, you need a DNS record. We recommend that you integrate your private endpoint with a private DNS zone. You can also utilize your own DNS servers or create DNS records using the host files on your virtual machines. [Learn more](#)

Integrate with private DNS zone  Yes  No

Configuration name	Subscription	Resource group	Private DNS zone
privatelink-blob-core-win...	Azure subscription 1	Urg01	(new) privatelink.blob.cor...

## Create a private endpoint

Validation passed

Basics  Resource  Virtual Network  DNS  Tags  6 Review + create

### Basics

Subscription	Azure subscription 1
Resource group	Urg01
Region	Central US
Name	UstorageEP
Network Interface Name	UstorageEP-nic

### Resource

Subscription ID	5d75b66d-66bf-44e0-8d7e-7e61e4b043d7 (Azure subscription 1)
Link type	Microsoft.Storage/storageAccounts
Resource group	Urg01
Resource	udaystorageaccount216
Target sub-resource	blob

### Virtual Network

Virtual network resource group	Urg01
Virtual network	vnet-centralus
Subnet	snet-centralus-1 (172.17.0.0/24)
Network Policies	Disabled
Application security groups	None

### DNS

Integrate with private DNS zone?	Yes
Statically allocate Private IP	No
Private DNS zone resource group	Urg01
Private DNS zone	privatelink.blob.core.windows.net

### Tags

None

[Create](#)

[< Previous](#)

[Next >](#)

[Download a template for automation](#)

## Private DNS zones

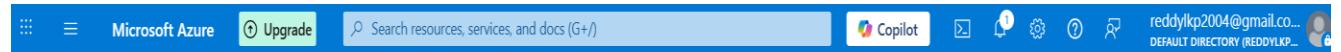
Default Directory (reddylkp2004@gmail.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags Delete Add to service group

(1) You are viewing a new version of Browse experience. Click here to access the old experience.

Filter for any field... Subscription equals all Resource Group equals all Location equals all Add filter

Name ↑	Number of record ...	Max number of rec...	Number of virtual ...	Number of virtual ...	Resource Group	Subscription
privatelink.blob.core.windows.net	2	25,000	1 / 1000	0 / 100	Urg01	Azure subscription 1
privatelink.blob.core.windows.net	2	25,000	1 / 1000	0 / 100	VRG1	Azure subscription 1



Home > Private DNS zones > privatelink.blob.core.windows.net

### Private DNS zo...

Default Directory (reddylkp2004@gmail.onmicrosoft...

+ Create ... Group by none

(1) You are viewing a new version of Browse experience. Click here to access the old experience.

Name ↑

- privatelink.blob.core.windows.net
- privatelink.blob.core.windows.net

### privatelink.blob.core.windows.net | Recordsets

Private DNS zone

+ Add Refresh Delete Give feedback

A record set is a collection of records in a zone that have the same name and are the same type. Record Sets will be automatically fetched in batches of 100 as you scroll through the existing record sets. [Learn more](#)

Search

Fetched 2 record set(s).

1 record sets selected

Name	Type	TTL	Value	Auto registered
------	------	-----	-------	-----------------

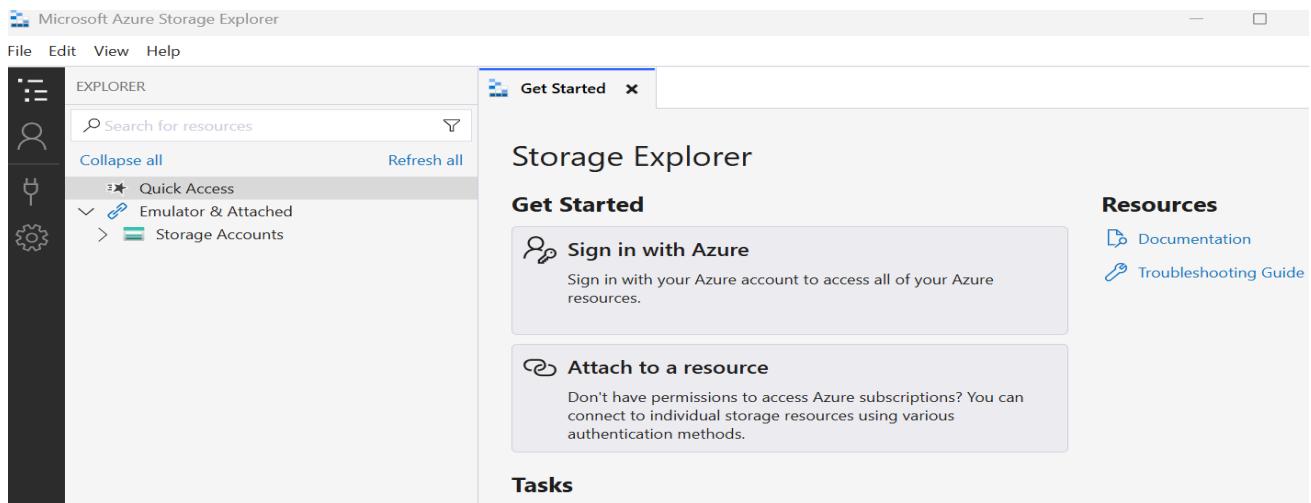
@	SOA	3600	Email: azureprivatedns-host.microsoft.com Host: azureprivatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1	False
udaystorageacco	A	10	172.17.0.5	False

Showing 1 - 2 of 2. Display auto count:

## Access Level

- ✓ **Portal Access**
- ✓ **Access Keys:** All admin rights on the Storage
- ✓ **SAS Keys:** Shared access Signature
- ✓ **RBAC (Role Based Access Control)**

To access storage, we have to **install Azure Storage Explorer**



**For Access keys- Go to Storage Account and Access keys shown below.**

The screenshot shows the 'Access keys' page for the storage account 'udaystorageaccount216'. The left sidebar lists 'Data storage', 'Containers', 'File shares', 'Queues', 'Tables', 'Networking', 'Front Door and CDN', 'Access keys' (which is selected and highlighted in grey), 'Shared access signature', 'Encryption', and 'Microsoft Defender for Cloud'. The main content area shows two sets of access keys: 'key1' and 'key2'. Each key has a 'Rotate key' button, a note about rotation date ('Last rotated: 09/02/2026 (0 days ago)'), and a 'Key' input field with a 'Show' button. Below each key is a 'Connection string' input field with a 'Show' button.

❖ Copy above **Key** and **Name** and paste on **Azure Storage Explorer**

What kind of Azure resource do you want to connect to?

- Subscription  
Sign in to Azure to access storage resources such as blobs, files, queues, and tables under subscriptions you have access to.
- Storage account or service  
Attach to one or more services in a Storage account.
- Blob container or directory  
Attach to an individual Blob container or directory.
- ADLS Gen2 container or directory  
Attach to an individual ADLS Gen2 container or directory.
- File share  
Attach to an individual File share.
- Queue  
Attach to an individual queue.
- Table  
Attach to an individual table.
- Local storage emulator  
Attach to resources managed by a storage emulator running on your local machine.

 Connect to Azure Storage

## Select Connection Method

Select Resource > **Select Connection Method** > Enter Connection Info > Summary

How will you connect to the storage account?

- Connection string (Key or SAS)
- Shared access signature URL (SAS)
- Account name and key

## Connect to Azure Storage

Select Resource > Select Connection Method > **Enter Connection Info** > Summary

Display name:  
udaystorageaccount216-1

\* Account name:  
udaystorageaccount216

\* Account key:  
794eTtQLHO1FAjYdu7WF9zwmHN8MNYHdtqfQG7nCoCt6RK8kIGz3Oohgoc0BPIlRoQcOn18ezl5M+AStRSvMjQ==

Storage domain:  
 Azure (core.windows.net)  
 Azure China (core.chinacloudapi.cn)  
 US Government (core.usgovcloudapi.net)  
 Other:  
core.windows.net

Use HTTP (not recommended)

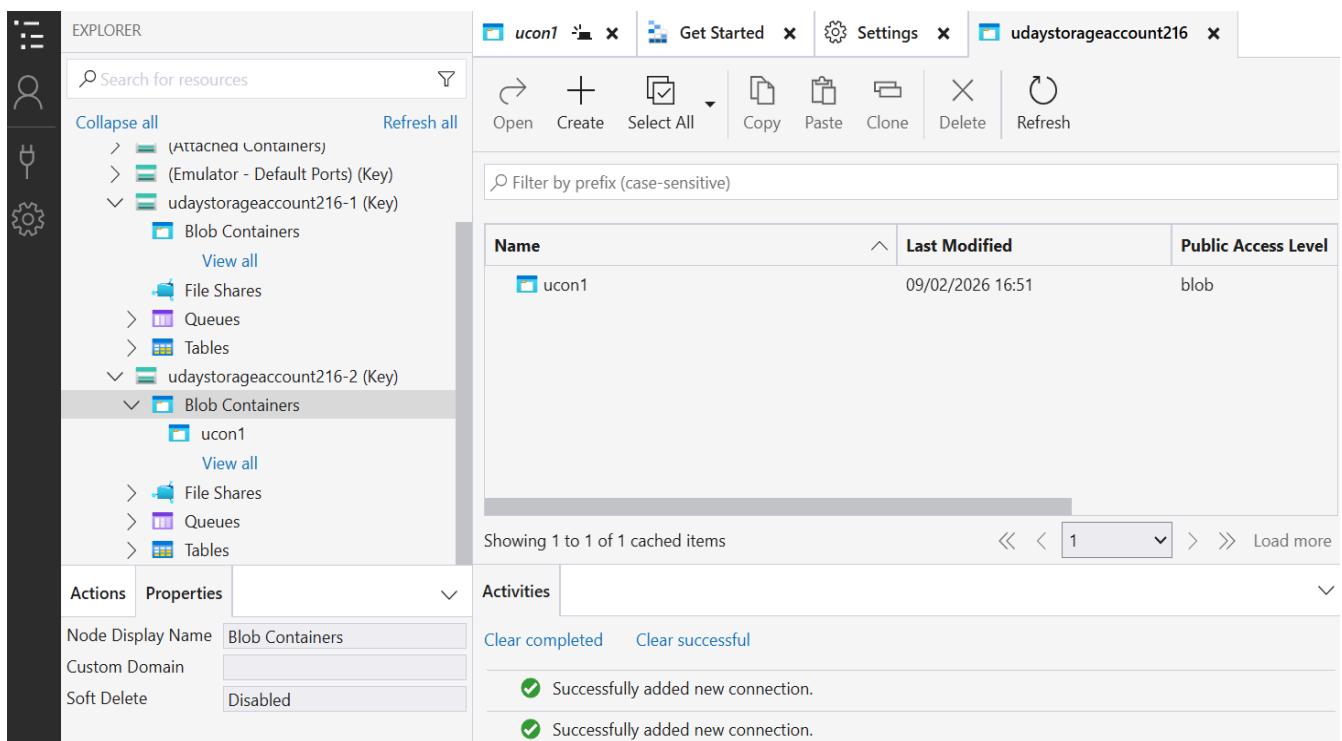
## Summary

Select Resource > Select Connection Method > Enter Connection Info > **Summary**

The following settings will be used to connect to your resource:

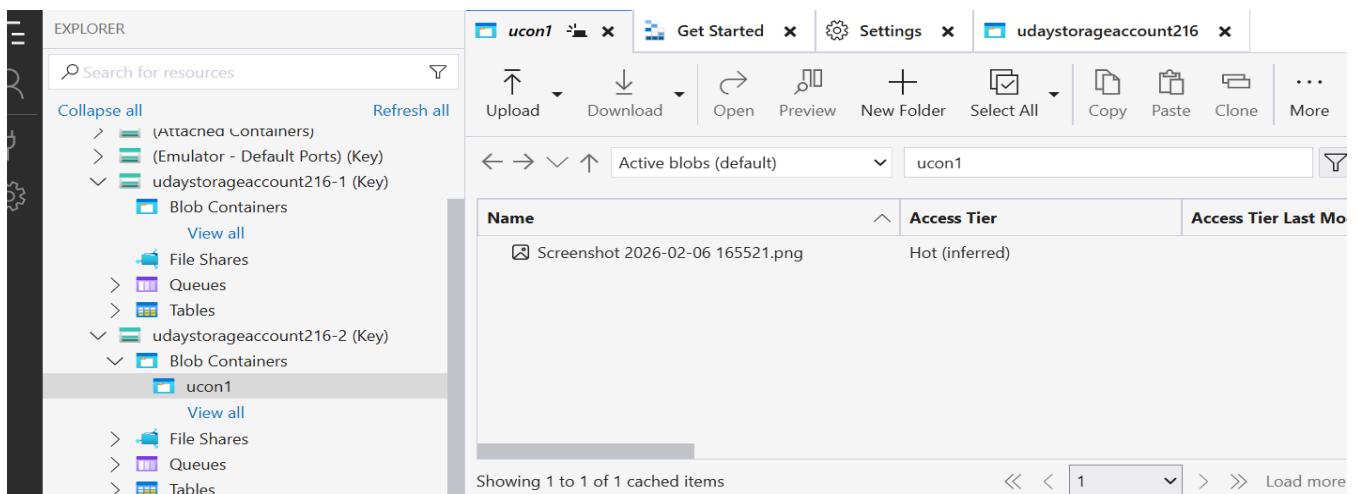
**Display name:** udaystorageaccount216-1  
**Account name:** udaystorageaccount216  
**Account key:** 794eTtQLHO1FAjYdu7WF9zwmHN8MNYHdtqfQG7nCoCt6RK8kIGz3Oohgoc0BPIIRoQcOn18ezl5M+AStRSvMjQ==  
**Endpoint suffix:** core.windows.net  
**Default endpoints protocol:** https

 Make sure you only connect to resources you trust.



The screenshot shows the Azure Storage Explorer interface. The left sidebar displays a tree view of storage accounts and containers. The main pane lists blobs under the 'ucon1' container, showing one item named 'ucon1' with a last modified date of 09/02/2026 16:51 and a public access level of 'blob'. The top navigation bar includes tabs for 'Get Started', 'Settings', and the current connection 'udaystorageaccount216'. The bottom pane shows activity logs with two successful connection additions.

❖ For Upload anything we can Upload based on Requirement



The screenshot shows the Azure Storage Explorer interface. The left sidebar displays a tree view of storage accounts and containers. The main pane lists blobs under the 'ucon1' container, showing one item named 'Screenshot 2026-02-06 165521.png' with an access tier of 'Hot (inferred)'. The top navigation bar includes tabs for 'Get Started', 'Settings', and the current connection 'udaystorageaccount216'. The bottom pane shows activity logs with two successful connection additions.

- **Privately** By using **Access keys**, we can **login to storage account** and also upload any files from local **laptop to cloud** and **On-premise to Cloud** based on Authorization.
- But by doing this we get full Access like Admin Access, this is not good at organisation level to restrict this we use **SAS Keys**.

### ❖ SAS Keys

## 3. SAS key: Shared access signature

REstrict the access

which data storage

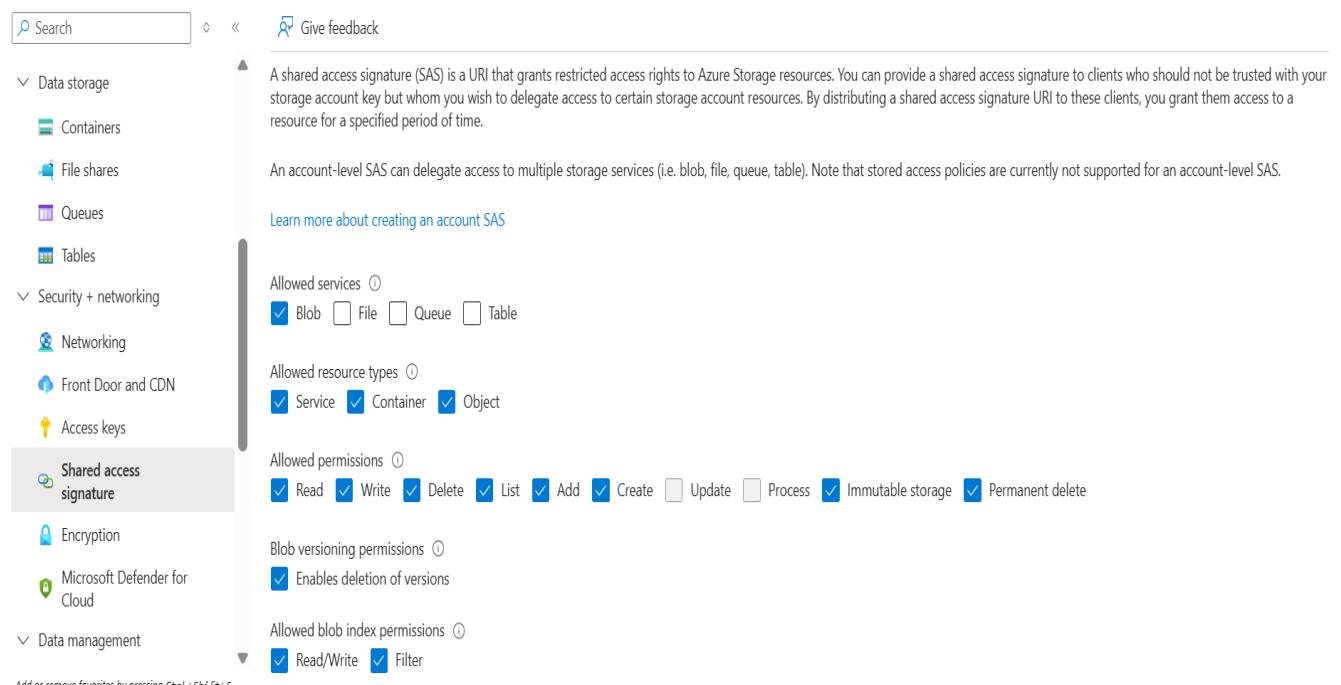
blob, file share

read, write

Ip address  
how mins

Home > Storage center | Blob Storage > udaystorageaccount216

 udaystorageaccount216 | Shared access signature ⭐ ...  
Storage account



The screenshot shows the Azure Storage center interface. On the left, there's a navigation sidebar with icons for Data storage, Security + networking, Data management, and Microsoft Defender for Cloud. The 'Shared access signature' option under Data storage is currently selected and highlighted in grey. The main content area displays information about Shared access signatures (SAS), including their purpose of granting restricted access rights to Azure Storage resources. It shows the current configuration for the 'udaystorageaccount216' account, which includes:

- Allowed services:** Blob (checked), File (unchecked), Queue (unchecked), Table (unchecked).
- Allowed resource types:** Service (checked), Container (checked), Object (checked).
- Allowed permissions:** Read (checked), Write (checked), Delete (checked), List (checked), Add (checked), Create (checked), Update (unchecked), Process (checked), Immutable storage (checked), Permanent delete (checked).
- Blob versioning permissions:** Enables deletion of versions (checked).
- Allowed blob index permissions:** Read/Write (checked), Filter (checked).

At the bottom of the main content area, there's a small note: "Add or remove favorites by pressing Ctrl + Shift + F".

udaystorageaccount216 | Shared access signature

Storage account

Search Give feedback

Allowed protocols:  HTTPS only  HTTPS and HTTP

Preferred routing tier:  Basic (default)  Microsoft network routing  Internet routing

Some routing options are disabled because the endpoints are not published.

Signing key: key1

Generate SAS and connection string

Connection string: BlobEndpoint=https://udaystorageaccount216.blob.core.windows.net/;QueueEndpoint=https://udaystorageaccount216.queue.core.windows.net/;FileEndpoint=https://udaystorageacco...

SAS token: sv=2024-11-04&ss=b&srt=sco&sp=rwdlaciytfx&se=2026-02-09T23:36:00Z&st=2026-02-09T15:21:00Z&spr=https&sig=abnzGFl68x89oHP7aJRPQ%2B%2F8vibHoNifA%2BbLgK83%2Fr...

Blob service SAS URL: https://udaystorageaccount216.blob.core.windows.net/?sv=2024-11-04&ss=b&srt=sco&sp=rwdlaciytfx&se=2026-02-09T23:36:00Z&st=2026-02-09T15:21:00Z&spr=https&sig=abnzG...

Copied

Containers File shares Queues Tables Networking Front Door and CDN Access keys Shared access signature Encryption Microsoft Defender for Cloud Data management

## Enter Connection Info

Select Resource > Select Connection Method > **Enter Connection Info** > Summary

Display name:

udaystorageaccount216-3sas

\* Service URL:

https://udaystorageaccount216.blob.core.windows.net/?sv=2024-11-04&ss=b&srt=sco&sp=rwdlaciytfx&se=2026-02-09T23:36:00Z&st=2026-02-09T15:21:00Z&spr=https&sig=abnzGFl68x89oHP7aJRPQ%2B%2F8vibHoNifA%2BbLgK83%2Fr%3D

## Summary

Select Resource > Select Connection Method > Enter Connection Info > **Summary**

The following settings will be used to connect to your resource:

**Display name:** udaystorageaccount216-3sas

**Account name:** udaystorageaccount216

**Blob endpoint:** https://udaystorageaccount216.blob.core.windows.net/

**SAS:** sv=2024-11-04&ss=b&srt=sco&sp=rwdlaciytfx&se=2026-02-09T23:36:00Z&st=2026-02-09T15:21:00Z&spr=https&sig=abnzGFl68x89oHP7aJRPQ%2B%2F8vibHoNifA%2BbLgK83%2Fr%3D

**Service access:** Blob

**Resource type access:** Service, Container, Object

**Permissions:** Read, Write, Delete, List, Add, Create, Set immutability policy, Permanent delete, Tag, Filter, Delete version

**!** Make sure you only connect to resources you trust.

- ✓ We can see Blob only in our Storage

The screenshot shows the Azure Storage Explorer interface. On the left, there's a tree view of storage accounts and their resources. Under 'udaystorageaccount216-1 (Key)', there are 'Blob Containers' (one named 'ucon1') and other resources like 'File Shares', 'Queues', and 'Tables'. Under 'udaystorageaccount216-2 (Key)', there are also 'Blob Containers' (one named 'ucon1') and other resources. Under 'udaystorageaccount216-3sas (SAS)', there are 'Blob Containers'. On the right, a list of blobs is displayed with one item: 'Screenshot 2026-02-06 165521.png' which has an 'Access Tier' of 'Hot (inferred)'. At the bottom, it says 'Showing 1 to 1 of 1 cached items'.

## ➤ Role Based Access Control (RBAC)

The screenshot shows the 'Access Control (IAM)' section of an Azure Storage account. The left sidebar has options like 'Overview', 'Activity log', 'Tags', 'Diagnose and solve problems', and 'Access Control (IAM)' (which is selected). The main area has tabs for 'Check access', 'Role assignments', 'Roles', 'Deny assignments', and 'Classic administrators'. Under 'My access', it says 'View my level of access to this resource.' and has a 'View my access' button. At the top, there's a search bar, an 'Add' button, and other navigation links.

- ✓ Job function role - Limited Access
- ✓ Privileged administrator roles - Full Access

Add role assignment ...

The screenshot shows the 'Add role assignment' page. It has tabs for 'Role', 'Members', 'Conditions', and 'Review + assign'. A note says 'A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. Learn more' with a 'Copilot can help pick a role' button. Under 'Job function roles', it lists 'Privileged administrator roles'. A note says 'Grant access to Azure resources based on job function, such as the ability to create virtual machines.' Below is a table of built-in roles:

Name	Description	Type	Category	Details
Defender for Storage Data Scanner	Grants access to read blobs and update index tags. This role is used by the data scanner of Defender for Stor...	BuiltInRole	None	<a href="#">View</a>
Storage Actions Blob Data Operator	Used by the Storage Actions - Storage Task to list & perform operations on the Storage Account blobs	BuiltInRole	None	<a href="#">View</a>
Storage Blob Data Contributor	Allows for read, write and delete access to Azure Storage blob containers and data	BuiltInRole	Storage	<a href="#">View</a>
Storage Blob Data Owner	Allows for full access to Azure Storage blob containers and data, including assigning POSIX access control.	BuiltInRole	Storage	<a href="#">View</a>
Storage Blob Data Reader	Allows for read access to Azure Storage blob containers and data	BuiltInRole	Storage	<a href="#">View</a>

The screenshot shows the Microsoft Azure portal interface. At the top, there's a blue header bar with the Microsoft Azure logo, an 'Upgrade' button, a search bar ('Search resources, services, and docs (G+/)'), and several icons for Copilot, settings, and help.

The main content area has two sections:

- Left Panel (Add role assignment):**
  - Role:** Storage Blob Data Reader (highlighted)
  - Members:** Copilot can help pick a role
  - Conditions:**
  - Review + assign:**

A note says: "A role definition is a collection of permissions. You can use the built-in roles or you can create your own."

**Job function roles:** Privileged administrator roles

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

Search bar: storage blob reader | Type: All | Category: All

Name ↑	Description ↑
Storage Blob Data Reader	Allows for read access to Azure Storage

Showing 1 - 1 of 1 results.
- Right Panel (Storage Blob Data Reader):**

### Storage Blob Data Reader

BuiltInRole

**Permissions** JSON Assignments

**Description:** Allows for read access to Azure Storage blob containers and data

Search permissions | Type: All

Permission Type: Actions

Showing 3 of 3 permissions

Type	Permissions	Description
Microsoft.Storage		
Other	Generate a user delegation key	Returns a user delegation key for the blob service
Read	Get blob container	Returns a container
Read	List of blob containers	Returns list of containers

## ❖ File Share

- ✓ Create file share and add directory and click on Connect.
- ✓ Copy below script based on which machine.
- ✓ Login to that machine using below Script, Paste in Administration: Windows PowerShell

The screenshot shows the Microsoft Azure portal interface for a file share named 'ufleshare'.

**Left Panel (File share Overview):**

- Storage account: udaystorageaccount216
- Resource group: Urg01
- Location: Central US
- Subscription: Azure subscription 1
- Subscription ID: 5d75b66d-66bf-44e0-8d7e-7e61e4b043d7

**Right Panel (Connect):**

### Connect

ufleshare

**Windows** | Linux | macOS

To connect to this Azure file share from Windows, choose from the following authentication methods and run the PowerShell commands from a normal (not elevated) PowerShell terminal:

**Drive letter:** Z

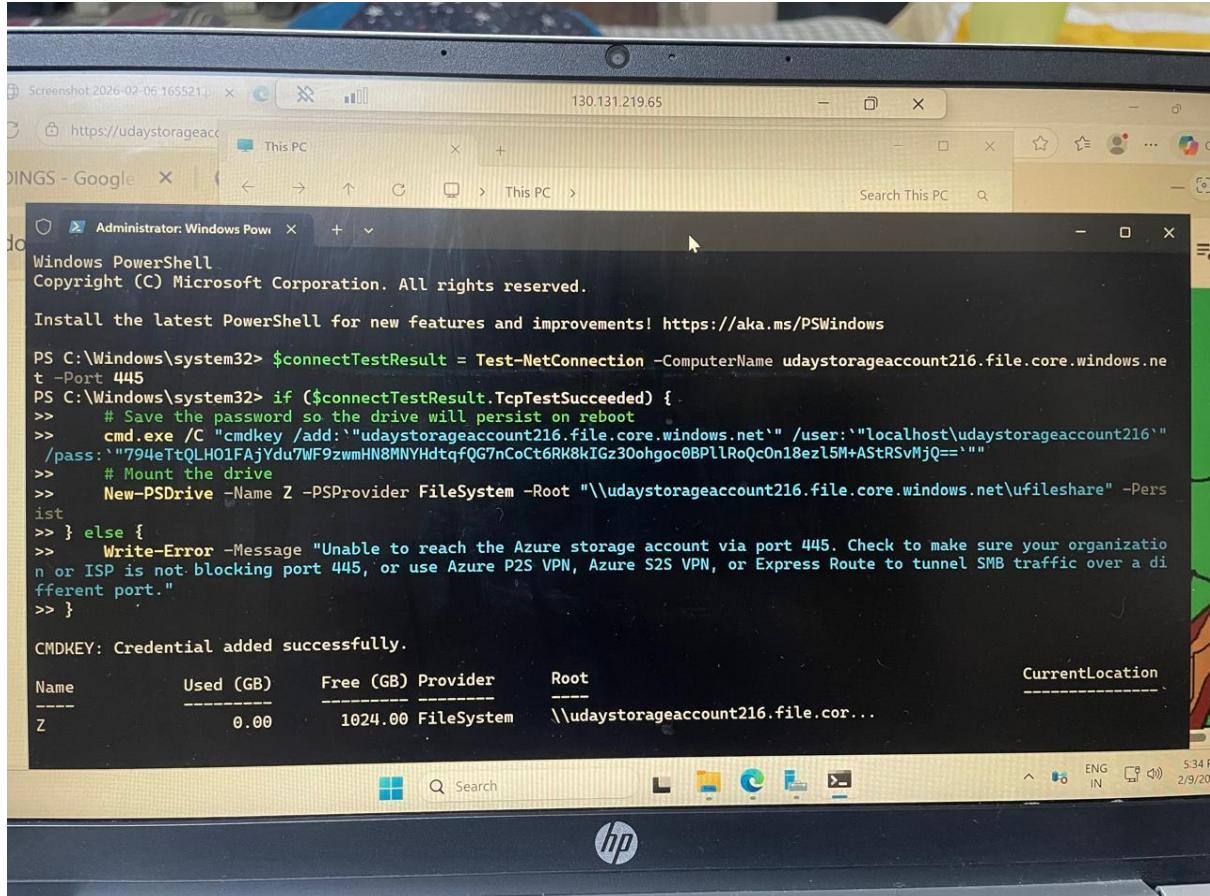
**Authentication method:**
 Active Directory or Microsoft Entra
  Storage account key

**Note:** Connecting to a share using the storage account key is only appropriate for admin access. Mounting the Azure file share with the Active Directory or Microsoft Entra identity of the user is preferred. [Learn more](#)

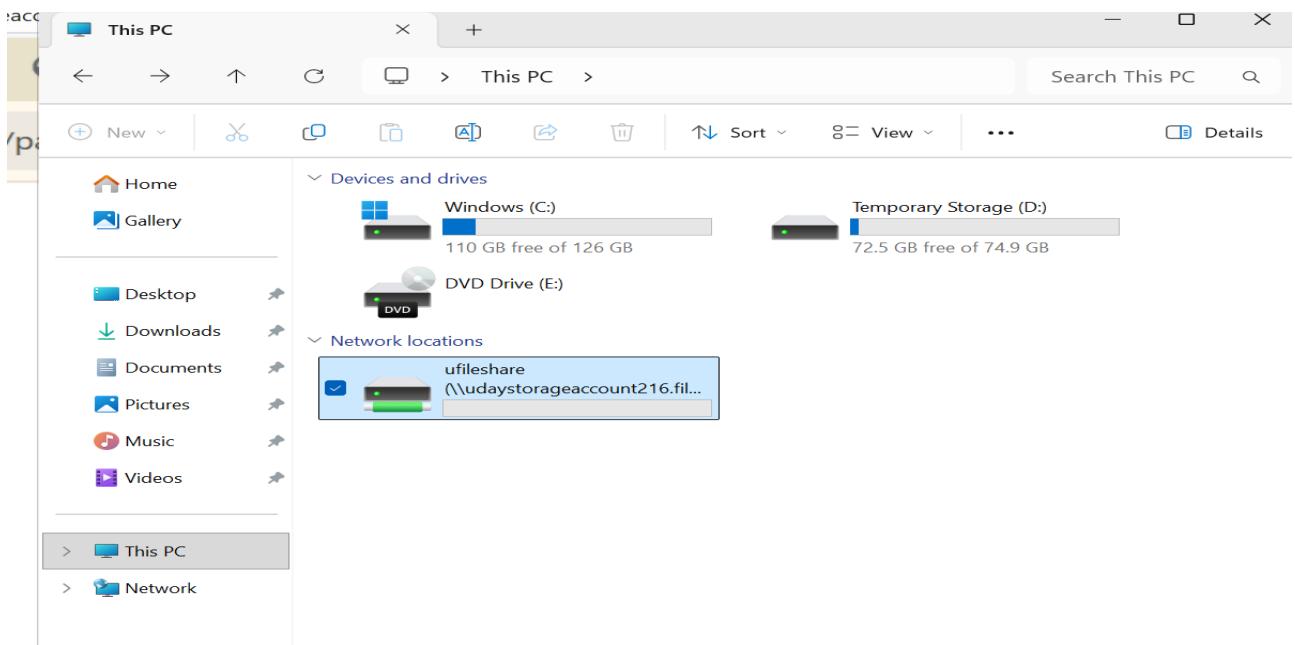
**Hide Script**

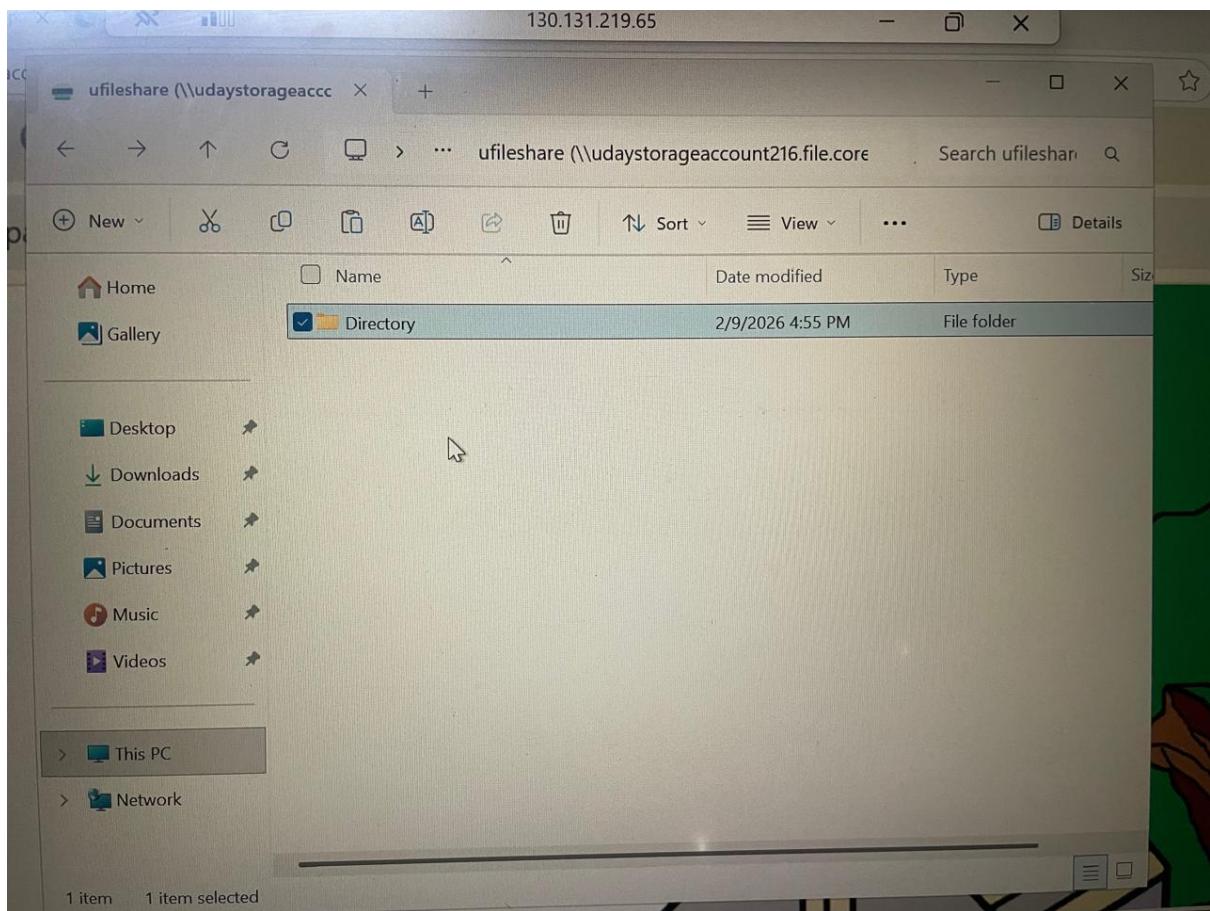
```
$connectTestResult = Test-NetConnection -ComputerName udaystorageaccount216.file.core.windows.net -Port 445
if ($connectTestResult.TcpTestSucceeded) {
    # Save the password so the drive will persist on reboot
    cmd.exe /C "cmdkey /add:"udaystorageaccount216.file.core.windows.net" /user:"localhost\udaystorageaccount216"
    /pass:"794fTQLH01FaYduWF9zwmHN8MNvHdtqfQG7nCoCt6RK8kIG3Oohgoc0BPIlRoQcOn18ezIM+AStRSvMjQ==""
    # Mount the drive
    New-PSDrive -Name Z -PSProvider FileSystem -Root "\udaystorageaccount216.file.core.windows.net\ufleshare" -Persist
} else {
```

✓ By using File share we can connect to the VM by internal access and share files to within organisation.



✓ In VM created new drive with file directory inside it.





- ✓ It's like important files we are storing on our google drive.
- ✓ If any VM crash our data will be secure in cloud.
- ✓ And for data (storage account) it has its own Redundant method like LRS, coping in files in multiple VMs.
- ✓ It stores locally; we can also backup the data but we disabled it. If we want data backup, we can enable it.
- ✓ **File share**- Network shared Folder where we can store centralized data that data can be mapped into our internal machines (team member machines)

## ❖ Queues

- ✓ After creating endpoint, this endpoint we give to Developer he will add this endpoint in their application so that all the application queues will be stores at in Queues.

The screenshot shows the 'Queues' blade for the storage account 'krisstore298734'. The top navigation bar includes 'Storage browser', 'Storage Mover', 'Partner solutions', 'Resource visualizer', 'Data storage' (with 'Containers' and 'File shares' collapsed), and 'Queues' (which is selected and highlighted in grey). A search bar at the top right contains the placeholder 'Search queues by prefix'. Below the search bar is a table with two columns: 'Queue' and 'Url'. A single row is listed with the queue name 'asdfas' and its URL 'https://krisstore298734.queue.core.windows.net/asdfas'. A success message 'Successfully created storage queue 'asdfas'' is displayed in the top right corner.

## ❖ Tables

- ✓ After creating endpoint, this endpoint we give to SQL developer will add this endpoint in their Database, so that all the data will be stored in Tables.

The screenshot shows the 'Tables' blade for the storage account 'krisstore298734'. The top navigation bar includes 'Storage browser', 'Storage Mover', 'Partner solutions', 'Resource visualizer', 'Data storage' (with 'Containers' and 'File shares' collapsed), and 'Tables' (which is selected and highlighted in grey). A search bar at the top right contains the placeholder 'Search tables by prefix'. Below the search bar is a table with two columns: 'Table' and 'Url'. A single row is listed with the table name 'asdf' and its URL 'https://krisstore298734.table.core.windows.net/asdf'. A success message 'Authentication method: Access key (Switch to Microsoft Entra user account)' is displayed above the table list.